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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Carlos F. Barbas III et al.

Serial No.: 10/078,757

Filed: February 19, 2002

For: HUMANIZATION OF
MURINE ANTIBODY

Atty. Docket No.: TSRI 598.0 Con.1

COMMUNICATION

U.S. Patent Office
2011 South Clark Place
Customer Window, Box Sequence
Crystal Plaza Two, Lobby, Room 1B03
Arlington, Virginia 22202

Sir:

In response to the Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence And/or Amino Acid Sequence Disclosures mailed May 14, 2002, enclosed is a substitute paper copy and computer-readable form of the "Sequence Listing." A copy of the Patent Office Notice is returned herewith.

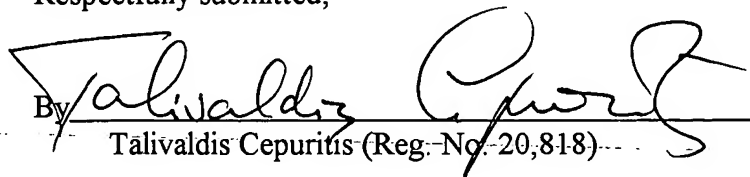
This submission does not constitute new matter and is supported in the application as filed. To the best of my information and belief, the sequence listing information recorded in computer-readable form is identical to the paper copy of the sequence listing.

Please charge any fees concerning this matter or credit any overpayment to our Deposit Account No. 15-0508.

Respectfully submitted,

Dated: June 20, 2002

By


Talivaldis Cepuritis (Reg. No. 20,818)

OLSON & HIERL, LTD.
20 North Wacker Drive
36th Floor
Chicago, Illinois 60606
(312) 580-1180

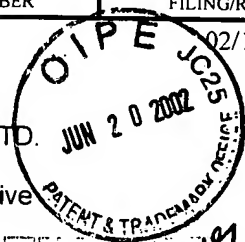


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WASHINGTON, D.C. 20231
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/078,757	02/19/2002	Carlos F. Barbas III	TSRI 598.0 Con1

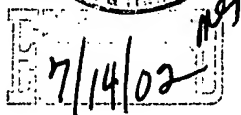
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CONFIRMATION NO. 7970

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OC00000008109488

Date Mailed: 05/14/2002

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d). Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
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*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center,
Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



- 1 -

SEQUENCE LISTING

<110> BARBAS, Carlos F., III
RADER, Christoph

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<130> TSRI 598.0 Con1

<140> US 10/078,757

<141> 2002-02-19

<150> US 08/986,016

<151> 1997-12-05

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			20					25					30		
Trp	Val	Arg	Gln	Ile	Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	Ala	Lys	Val
		35					40					45			
Ser	Ser	Gly	Gly	Gly	Ser	Thr	Tyr	Tyr	Leu	Asp	Thr	Val	Gln	Gly	Arg
	50					55				60					
Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met
65					70					75					80
Ser	Ser	Leu	Asn	Ser	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ala	Arg	His
			85						90					95	
Asn	Tyr	Gly	Ser	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val
			100					105					110		
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<213> Mus Musculus

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			20					25					30		
Leu	His	Trp	Tyr	Gln	Gln	Lys	Ser	His	Glu	Ser	Pro	Arg	Leu	Leu	Ile
		35					40					45			
Lys	Tyr	Ala	Ser	Gln	Ser	Ile	Ser	Gly	Ile	Pro	Ser	Arg	Phe	Ser	Gly
	50					55				60					
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Ser	Ile	Asn	Ser	Val	Glu	Thr
65					70					75					80
Glu	Asp	Phe	Gly	Met	Tyr	Phe	Cys	Gln	Gln	Ser	Asn	Ser	Trp	Pro	His
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		35					40				45						
Lys	Tyr	Ala	Ser	Gln	Pro	Val	Phe	Gly	Val	Pro	Ser	Arg	Phe	Arg	Gly		
	50					55				60							
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Tyr	Ser	Leu	Glu	Ala		
65				70						75					80		
Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Ser	Asn	Ser	Trp	Pro	His		
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		20					25				30						
Gly	Tyr	Tyr	Trp	Ser	Trp	Ile	Arg	Gln	Tyr	Pro	Gly	Lys	Gly	Leu	Glu		
	35					40				45							
Trp	Ile	Gly	Tyr	Ile	His	His	Ser	Gly	Ser	Thr	Tyr	Tyr	Asn	Pro	Ser		
50				55						60							
Leu	Lys	Ser	Arg	Val	Thr	Ile	Ala	Ile	Asp	Thr	Ser	Lys	Asn	Gln	Leu		
65				70					75						80		
Ser	Leu	Arg	Leu	Thr	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr		
			85					90					95				
Cys	Ala	Arg	His	Asn	Tyr	Gly	Ser	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr		
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Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Arg Asn Gln Ile
65 70 75 80
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Trp Ile Gly Tyr Ile His His Ser Ala Gly Thr Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Leu
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Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
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	50					55					60								
Leu	Lys	Ser	Arg	Val	Thr	Met	Ser	Ala	Asp	Thr	Ser	Lys	Asn	Gln	Leu				
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Cys	Ala	Arg	His	Asn	Tyr	Gly	Ser	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr				
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Ala	Val	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Arg	Phe	Glu	Trp	Leu				
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Gly	Gly	Ile	Val	Ala	Ser	Leu	Gly	Ser	Thr	Asp	Tyr	Ala	Gln	Lys	Phe				
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Gln	Asp	Lys	Leu	Thr	Ile	Thr	Val	Asp	Glu	Ser	Thr	Ala	Thr	Val	Tyr				
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Met	Glu	Met	Arg	Asn	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys				
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Ala	Arg	His	Asn	Tyr	Gly	Ser	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Leu				
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Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Lys	Leu	Leu	Ile
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Lys	Tyr	Ala	Ser	Gln	Pro	Val	Phe	Gly	Val	Pro	Ser	Arg	Phe	Arg	Gly
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Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Ser	Asn	Ser	Trp	Pro	His
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